# American Academy of Arts and Sciences

Robert Weisenmiller, Chair, California Energy Commission

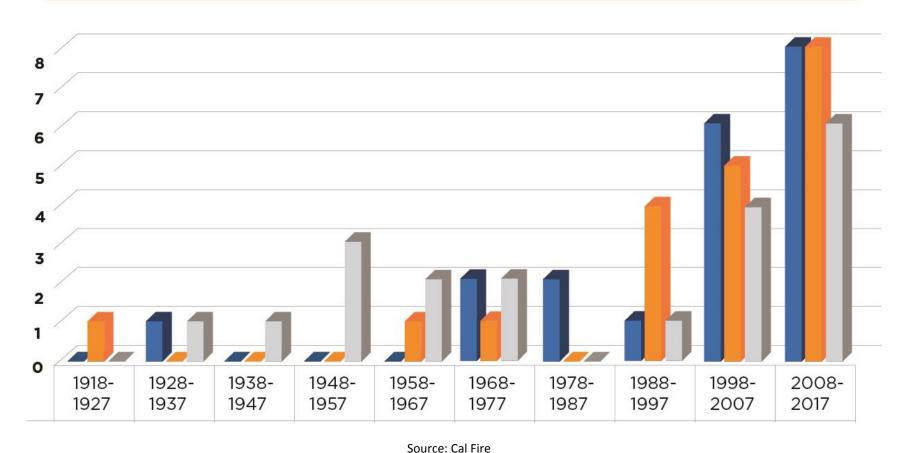
New Breakthroughs in Research

March 1, 2018





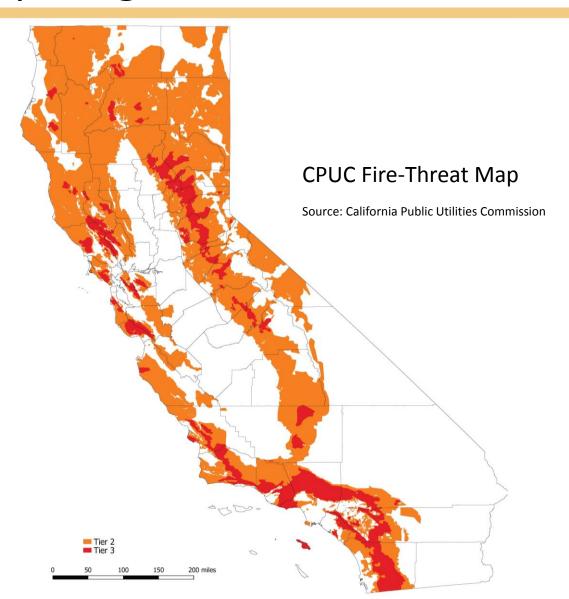
### Climate Adaptation: Preparing for Future Fires in California

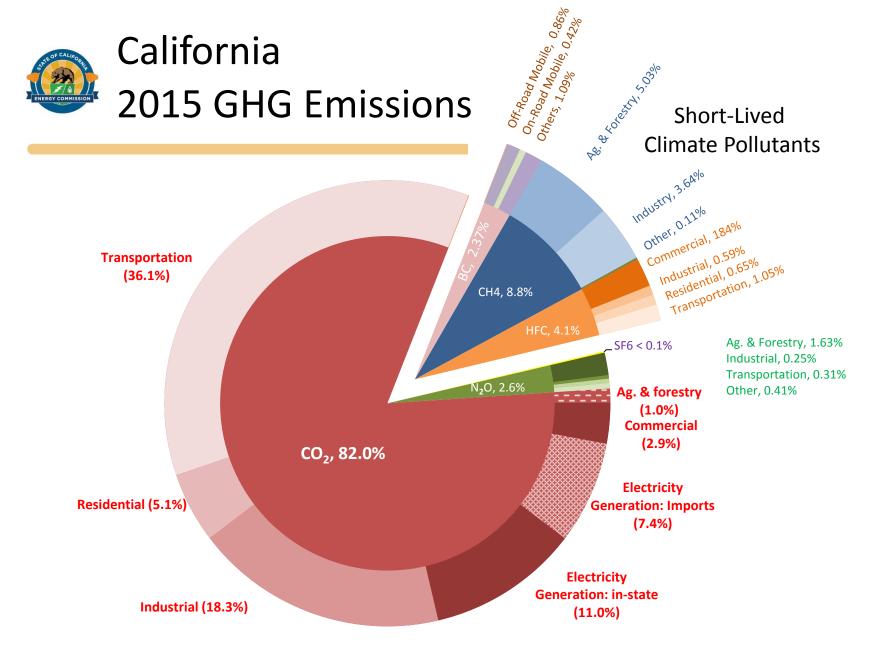


LargestMost DestructiveDeadliest



### Climate Adaptation: Preparing for Future Fires in California





Source: California Energy Commission staff using data from CARB's 2017 Greenhouse Gas Emissions Inventory of 2015 emissions. Black carbon emissions data are from 2013, the most recent data available. The transportation sector is 36.2 percent of total when including black carbon and 38.5 percent when black carbon is not included.



## Innovation: Priming Electricity System's Transformation





**Energy Storage** 



Renewable Forecasting & Modeling

Higher
Mix of Renewable
Energy Integration







#### Innovation: Projects in Disadvantaged Communities/Low Income







Smart Ceiling
Fans with
Communicating
T-Stats



